

**MODEL RR-1050**

**9 DEVICES LEARNING REMOTE CONTROL**

**WITH PREPROGRAMMED ROTEL CODE**

**SPECIFICATION SHEET**

**(I) COSMETIC**

**HOUSING**

Colour : Black with Silver-dot colour spray-painted

Dimension : 225 (L) x 66 (W) x 30 (H) mm

**SLIDING COVER**

Silkscreen printed “ **ROTEL RR-1050** ” with colour # 155C

**LCD LENS**

Transparent / with silkscreen Dark Grey colour (#433C) frame

**UPPER PVC INLAY**

(a) Major background area :

----- Grey colour # 431C / White colour lettering

(b) Area for buttons “POWER ON / OFF , VOL UP/DOWN ....., MUTE” :

----- Light Grey colour # 428C / Letters “POWER, MACRO” Dark Grey colour # 433C

(c) Area for buttons “ 1, 2,.....,+10, 0, X” :

----- Dark Grey colour # 433C

(d) Area for buttons “UP, DOWN,.....ENT” :

----- Blue colour # 2718C

**LOWER PVC INLAY**

(a) Upper 10 Secondary Command Buttons area :

-----Grey colour # 431C / White colour lettering

(b) Middle 10 Secondary Command Buttons area :

-----Light Grey colour # 428C / Dark Grey colour # 433C lettering

(c) Special / Configuration Buttons area :

----- Dark Grey colour # 433C / White colour lettering

#### **UPPER RUBBER KEYPAD**

Milky colour / Black colour lettering

#### **LOWER RUBBER KEYPAD**

Grey colour / White colour lettering

#### **BACK PLATE**

Back Plate Label: Black colour background / Silver colour lettering

**FCC Label: Black colour background / Silver colour lettering**

### **(II) PACKAGING**

Each Unit packed with bubble bag then placed in an Inner Tray.

Inner Tray with Unit inserted into a **Dark Grey (#433C) Box (with White colour graphic).**

### **(III) CHARACTERISTICS / SPECIFICATIONS :**

(A) Capability of Learning Code format / types :

-----Learn Single code (not Double / Toggle Code) from Original Remote Control.

Except Commands Buttons "S1 to S5 " which provide Max. 3 Storage Codes  
(Command) per button.

-----Learn both Pulse and Carrier Frequency format type IR (Infrared) Remote Control  
Code. Please also see Appendix A for Waveform Notation.

(1) Pulse format :

Pulse-to-Pulse period -----Max. 3.3 sec. / Min. 45 Micro sec.

Transmitting Pulse Width -----Min. 27 Micro sec.

(2) Carrier Frequency format :

Carrier Frequency Learning Range -----20kHz to 75kHz

Carrier Pulse Width (Mark) -----Max. 2 sec. / Min. (approx.) 60 Micro sec.

Zero Width (Space) -----Max. 3.3 sec. / Min. (approx.) 60 Micro sec.

(B) Transmitting Range :

-----Average 10M

(C) Preprogrammed Commands (Pre-code) List :

(1) Preprogrammed Rotel Code with NEC format (system code 8311 Hex) stored in

Input buttons CD, TUNER, TAPE, EXT, V1 (DVD), V2, V3, V4 & V5.

- (2) Preprogrammed Rotel Code with NEC format (system code 8311 Hex) stored in "AUD" device bank.
- (3) Preprogrammed Rotel Code with NEC format (system code 007F Hex) and JC format (system code EF Hex) stored in "V1 (DVD)" device bank.
- (4) Also some Pre-codes (NEC format, system code 8311 Hex) stored in Command Buttons "POWER ON /OFF, VOL UP/DOWN, MUTE ....etc."
- (5) Please also see Appendix B & C, the Code Table for detail.

(D) LCD Keyname List :

----Please see Appendix C.

(E) Back-up after removal of batteries :

-----All learned Commands remained.

(F) Electrical performance of operations :

Battery operating range -----DC 4.6V to 6.5V

Standby current -----Less than 85 Micro Amp.

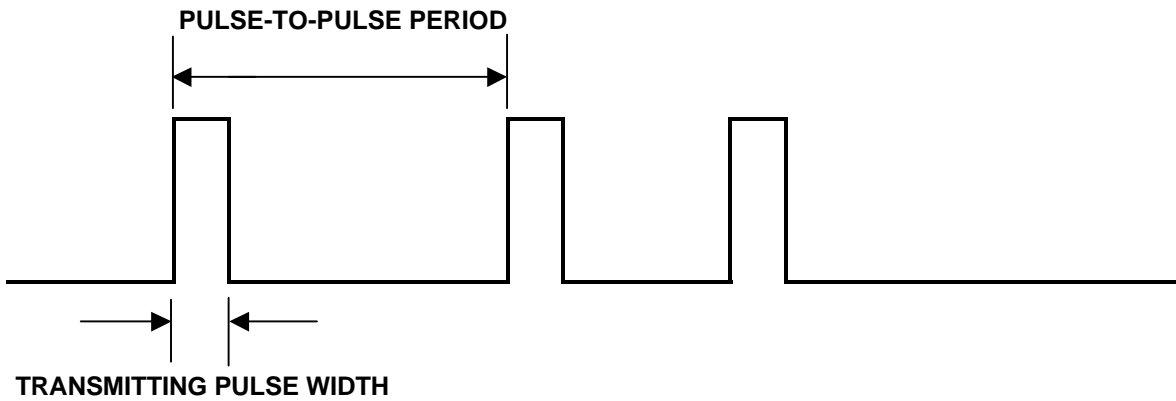
(G) Schematic Diagram :

-----Please see Appendix D

**Appendix A : RR-1050 ; Capability of Learning Code format / types**

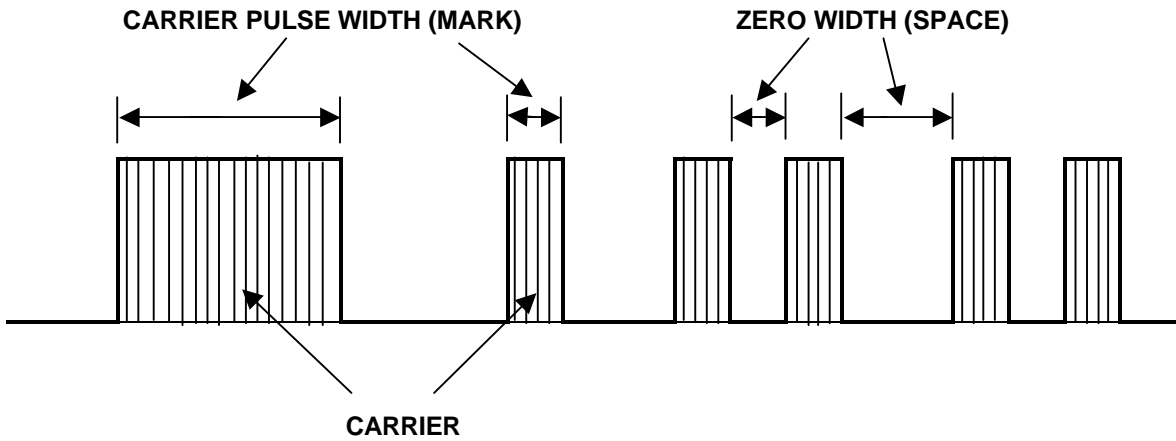
**(1) PULSE FORMAT :**

Pulse-to-Pulse period -----Max. 3.3 sec. / Min. 45 Micro sec.  
Transmitting Pulse Width -----Min. 27 Micro sec.



**(2) CARRIER FREQUENCY FORMAT :**

Carrier Frequency Learning Range -----20kHz to 75kHz  
Carrier Pulse Width (Mark) -----Max. 2 sec. / Min. (approx.) 60 Micro sec.  
Zero Width (Space) -----Max. 3.3 sec. / Min. (approx.) 60 Micro sec.



## Appendix B : RR-1050 Code table

ROTEL : RR-1050

AUD PAGE PRE-CODE (NEC CODE " 8311"H)

STOP BIT

BUTTON NAME CODE		CUSTOM CODE																DATA CODE																CARRIER FREQ.	
		C0	C1	C2	C3	C4	C5	C6	C7	C0	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7		
CD		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	37.79kHz
01			3				8				1				1				1			0													
TUNER		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	
02			3				8				1				1				2			0													
TAPE		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	1	1	1	
05			3				8				1				1				5			0													
EXT		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	1	1	0	0	1	1	1	
19			3				8				1				1				9			1													
DVD		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
07			3				8				1				1				7			0													
VIDEO 2		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	1	1	1	
08			3				8				1				1				8			0													
VIDEO 3		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1	
09			3				8				1				1				9			0													
VIDEO 4		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
03			3				8				1				1				3			0													
VIDEO 5		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	1	1	1	1	
04			3				8				1				1				4			0													
1		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	1	1	0	1	1	0	1		
48			3				8				1				1				8			4													
2		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	1	1	0	1	1	0	1	
49			3				8				1				1				9			4													
3		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0	1	1	0	1		
4A			3				8				1				1				A			4													
4		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	1	1	0	1		
4B			3				8				1				1				B			4													
5		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	1	1	0	1		
4C			3				8				1				1				C			4													
6		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	1	1	0	0	1	0	0	1	0	0	1	1	0	1		
4D			3				8				1				1				D			4													
7		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	1	0	0	1	0	1	0	0	0	1	1	0	1		
4E			3				8				1				1				E			4													
8		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	1	1	0	0	1	0	0	0	0	0	1	1	0	1		
4F			3				8				1				1				F			4													
9		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	1	1	1	0	1	0	1		
50			3				8				1				1				0			5													
0		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	1	0	1	0	1	
51			3				8				1				1				1			5													
TEN		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	1	0	1	1	0	1	0	1		
52			3				8				1				1				2			5													
PWR ON		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0	1	1	1	0	

BUTTON NAME CODE	CUSTOM CODE																	DATA CODE																	CARRIER FREQ.
	C0	C1	C2	C3	C4	C5	C6	C7	C8	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7			
98			3				8					1				1			8				9												
PWR OFF	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0			
80			3				8					1				1			0				8												
VOL UP	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	1	0	0	1	0	1	1	1			
16			3				8					1				1			6				1												
VOL DN	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1	0	1	1	1			
17			3				8					1				1			7				1												
CH UP	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	1	0	1	1	1	0	1			
44			3				8					1				1			4				4												
CH DOWN	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	1	0	1	1	1	0	1			
45			3				8					1				1			5				4												
MUTE	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	1	1	1			
18			3				8					1				1			8				1												
FRQ DIR	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	1	0	1	1	0	1	0	1			
52			3				8					1				1			2				5												
TUNE	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	1	0	1	1	1	0	0			
C4			3				8					1				1			4				C												
PRESET	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0	1	0	0	0	1	1	0	1	0	1	1	1	0	0			
C5			3				8					1				1			5				C												
FM MONO	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	1	0	0	1	1	1	0	1			
46			3				8					1				1			6				4												
BAND	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	1	1	1	1	0	1			
43			3				8					1				1			3				4												
CENTER	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1			
40			3				8					1				1			0				4												
MENU	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	1	1	1	1	0	1			
42			3				8					1				1			2				4												
SWOOFER	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1			
1F			3				8					1				1			F				1												
SURROUND	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1	1	0	1	0	1	1	1			
14			3				8					1				1			4				1												
UP	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	1			
57			3				8					1				1			7				5												
DOWN	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0	1	1	1	0	0	1	0	1			
58			3				8					1				1			8				5												
FORWARD	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	1	1	0	0	0	0	0	1	0	0	1	1	1			
1B			3				8					1				1			B				1												
BACK	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	1	1	1			
1C			3				8					1				1			C				1												
ENTER	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	1	1	1			
1E			3				8					1				1			E				1												
EQ	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	1	1	1			
13			3				8					1				1			3				1												
DYNAMIC	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	1	0	1	1	1	0	0	1	0	1			
58			3				8					1				1			8				5												

BUTTON NAME CODE		CUSTOM CODE														DATA CODE																CARRIER FREQ.				
		C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9					D10	D11	D12
RECORD		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	1	1		
1A			3				8				1			1			1				A			1												
ZONE		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	1	1	0	1	0	0	1	1	0		
9A			3				8				1			1			1				A			9												
SUR+		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1
1D			3				8				1			1			1				D			1												
2CH		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	
83			3				8				1			1			1				3			8												
PLII C		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	1	1	1	1	1	0	
84			3				8				1			1			1				4			8												
PLII M		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	1	1	1	1	0	
85			3				8				1			1			1				5			8												
5CH		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	1	1	1	1	0	
86			3				8				1			1			1				6			8												
7CH		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	1	1	1	1	1	0	
87			3				8				1			1			1				7			8												
DISPLAY		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1	0	1
55			3				8				1			1			1				5			5												
TAPE 2		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	1	1	1	1	1	
06			3				8				1			1			1				6			0												
PHONO		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	1	1	1	1	
0A			3				8				1			1			1				A			0												
TONE		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	0	1	0	0	0	0	1	0	1	0	1	1	1	1	
15			3				8				1			1			1				5			1												
DSELECT		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1
56			3				8				1			1			1				6			5												
SCAN		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1	0	1
54			3				8				1			1			1				4			5												
PTY		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	1	1	0	1	0	0	1	1	0	0	1	0	1	0	1
59			3				8				1			1			1				9			5												
T/PRESET		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	0	1	1	1	0	1	0	0	1	0	0	0	1	0	1	0	1
5D			3				8				1			1			1				D			5												
TP		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	1	1	0	1	0	0	0	1	0	0	1	0	1	0	1
5B			3				8				1			1			1				B			5												
TA		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	1	0	1	0	1	1	0	0	0	1	0	1	0	1	
5C			3				8				1			1			1				C			5												
POWER		1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
00			3				8				1			1			1				0			0												

## Appendix B : RR-1050 Code table

ROTEL : RR-1050

VIDEO 1 (DVD) PAGE PRE-CODE

(NEC CODE " 007F"H)

STOP BIT

BUTTON NAME CODE	CUSTOM CODE																DATA CODE																CARRIER FREQ.					
	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13		D14	D15	D16	D17	
																																						37.79kHz
POWER 49	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1				
			0				0					F			7				9			4																
PWR OFF 4A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	1	0	1				
			0				0					F			7				A			4																
TITLE 13	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0	1	1	1			
			0				0					F			7				3			1																
PROGSCAN 46	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	1	0	1	0	0	1	1	1	1	0	1			
			0				0					F			7				6			4																
OPEN 00	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1			
			0				0					F			7				0			0			0													
DISPLAY 52	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0	1	0	1	0	1	0	1	1	0	1	0	1			
			0				0					F			7				2			5																
AUDIO 42	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	1	0	1			
			0				0					F			7				2			4																
ANGLE 40	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	0	1			
			0				0					F			7				0			4																
SUBTITLE 41	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	1			
			0				0					F			7				1			4																
ZOOM 53	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	0	1	0	0	0	1	1	0	1	0	1			
			0				0					F			7				3			5																
RESUME 55	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	0	1			
			0				0					F			7				5			5																
REPEAT 5A	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	1	0	1	1	0	1	0	1	0	1	0	1	0	0	1	0	1			
			0				0					F			7				A			5																
A-B 5B	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	0	0	0	1	0	0	1	0	1	0	1			
			0				0					F			7				B			5																
GOTO 54	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1			
			0				0					F			7				4			5																
SLOW 10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0	1	1	1	1			
			0				0					F			7				0			1																



## Appendix B : RR-1050 Code table

ROTEL : RR-1050

VIDEO 1 (DVD) PAGE PRE-CODE

(JC CODE " EF"H)

STOP BIT

BUTTON NAME CODE	CUSTOM CODE							DATA CODE							CARRIER FREQ.		
	C0	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5		D6	D7
																	37.79kHz
1	1	1	1	1	0	1	1	1	1	0	0	0	0	1	1	0	
61			F				E			1				6			
2	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	0	
62			F				E			2				6			
3	1	1	1	1	0	1	1	1	1	1	0	0	0	1	1	0	
63			F				E			3				6			
4	1	1	1	1	0	1	1	1	0	0	1	0	0	1	1	0	
64			F				E			4				6			
5	1	1	1	1	0	1	1	1	1	0	1	0	0	1	1	0	
65			F				E			5				6			
6	1	1	1	1	0	1	1	1	0	1	1	0	0	1	1	0	
66			F				E			6				6			
7	1	1	1	1	0	1	1	1	1	1	1	0	0	1	1	0	
67			F				E			7				6			
8	1	1	1	1	0	1	1	1	0	0	0	1	0	1	1	0	
68			F				E			8				6			
9	1	1	1	1	0	1	1	1	1	0	0	1	0	1	1	0	
69			F				E			9				6			
0	1	1	1	1	0	1	1	1	0	0	0	0	0	1	1	0	
60			F				E			0				6			
TEN	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	0	
6F			F				E			F				6			
10	1	1	1	1	0	1	1	1	0	1	1	1	0	1	1	0	
6E			F				E			E				6			
PLAY	1	1	1	1	0	1	1	1	0	0	1	1	0	0	1	0	
4C			F				E			C				4			

BUTTON NAME	CUSTOM CODE								DATA CODE								CARRIER FREQ.
	C0	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	
REV SCAN	1	1	1	1	0	1	1	1	1	0	0	0	1	1	0	1	
B1			F				E				1				B		
FWD SCAN	1	1	1	1	0	1	1	1	0	0	0	0	1	1	0	1	
B0			F				E				0				B		
PAUSE	1	1	1	1	0	1	1	1	1	0	1	1	0	0	1	0	
4D			F				E				D				4		
STOP	1	1	1	1	0	1	1	1	1	1	0	0	0	0	1	0	
43			F				E				3				4		
MENU	1	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	
C1			F				E				1				C		
OSD	1	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	
C0			F				E				0				C		
SEARCH -	1	1	1	1	0	1	1	1	0	0	0	0	1	1	1	0	
70			F				E				0				7		
SEARCH +	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	0	
76			F				E				6				7		
UP	1	1	1	1	0	1	1	1	0	0	0	0	1	0	1	1	
D0			F				E				0				D		
DOWN	1	1	1	1	0	1	1	1	1	0	0	0	1	0	1	1	
D1			F				E				1				D		
FORWARD	1	1	1	1	0	1	1	1	1	1	0	0	1	0	1	1	
D3			F				E				3				D		
BACK	1	1	1	1	0	1	1	1	0	1	0	0	1	0	1	1	
D2			F				E				2				D		
ENTER	1	1	1	1	0	1	1	1	0	0	1	0	1	0	1	1	
D4			F				E				4				D		
DIGEST	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	1	
B9			F				E				9				B		

## Appendix C : CODE &amp; KEYNAME TABLE

FOR RR-1050 LEARNING REMOTE CONTROL

## REMARKS :

KEYNAME SHOULD BE MAX. 8 CHARACTERS ( INCLUDING SPACE) AND IS IN CAPITAL LETTER ONLY.

(FOR AVAILABLE CHARACTERS -----PLEASE SEE SEPARATE CHARACTER SET TABLE PRINTED ON USER GUIDE)

**RED** is AUD precodes with NEC format 8311h. **Green** is DVD precodes with JC format EFh. **Blue** is DVD precodes with NEC format 007Fh.

RR1050		AUD	CD	TUNER	TAPE	EXT	DVD	VIDEO 2	VIDEO 3	VIDEO 4	VIDEO 5
Device / Graphic	Input / Graphic										
1		1/48	1	1/48	1		1/61	1	1	1	1
2		2/49	2	2/49	2		2/62	2	2	2	2
3		3/4A	3	3/4A	3		3/63	3	3	3	3
4		4/4B	4	4/4B	4		4/64	4	4	4	4
5		5/4C	5	5/4C	5		5/65	5	5	5	5
6		6/4D	6	6/4D	6		6/66	6	6	6	6
7		7/4E	7	7/4E	7		7/67	7	7	7	7
8		8/4F	8	8/4F	8		8/68	8	8	8	8
9		9/50	9	9/50	9		9/69	9	9	9	9
0		0/51	0	0/51	0		0/60	0	0	0	0
+10		TEN/52	TEN	TEN/52	TEN		TEN/6F	TEN	TEN	TEN	TEN
X / 10		CLEAR	CLEAR	CLEAR	CLEAR		10/6E	CLEAR	CLEAR	CLEAR	CLEAR
POWER ON		PWR ON/98	PWR ON/98	PWR ON/98	PWR ON/98		POWER/49	PWR ON/98	PWR ON/98	PWR ON/98	PWR ON/98
POWER OFF		PWR OFF/80	PWR OFF/80	PWR OFF/80	PWR OFF/80		PWR OFF/4A	PWR OFF/80	PWR OFF/80	PWR OFF/80	PWR OFF/80
VOL UP		VOL UP/16	VOL UP/16	VOL UP/16	VOL UP/16		VOL UP/16	VOL UP/16	VOL UP/16	VOL UP/16	VOL UP/16
VOL DN		VOL DN/17	VOL DN/17	VOL DN/17	VOL DN/17		VOL DN/17	VOL DN/17	VOL DN/17	VOL DN/17	VOL DN/17
CH UP		CH UP/44	CH UP	CH UP/44	CH UP		CH UP	CH UP	CH UP	CH UP	CH UP
CH DOWN		CH DOWN/45	CH DOWN	CH DOWN/45	CH DOWN		CH DOWN	CH DOWN	CH DOWN	CH DOWN	CH DOWN
M/MACRO		MACRO	MACRO	MACRO	MACRO		MACRO	MACRO	MACRO	MACRO	MACRO
MUTE		MUTE/18	MUTE/18	MUTE/18	MUTE/18		MUTE/18	MUTE/18	MUTE/18	MUTE/18	MUTE/18
FREQ DIRECT / PLAY		FRQ DIR/52	PLAY	FRQ DIR/52	PLAY		PLAY/4C	PLAY	PLAY	PLAY	PLAY
TUNE/TRACK  <<		TUNE/C4	REV SCAN	TUNE/C4	REV SCAN		REV SCAN/B1	REV SCAN	REV SCAN	REV SCAN	REV SCAN
PRESET/TRACK >>		PRESET/C5	FWD SCAN	PRESET/C5	FWD SCAN		FWD SCAN/B0	FWD SCAN	FWD SCAN	FWD SCAN	FWD SCAN
FM MONO/PAUSE ( II )		FM MONO/46	PAUSE	FM MONO/46	PAUSE		PAUSE/4D	PAUSE	PAUSE	PAUSE	PAUSE
BAND/STOP ( )		BAND/43	STOP	BAND/43	STOP		STOP/43	STOP	STOP	STOP	STOP
C/CTR / GUIDE / MENU		CENTER/40	CENTER/40	CENTER/40	CENTER/40		MENU/C1	CENTER/40	CENTER/40	CENTER/40	CENTER/40
M/MENU / OSD		MENU/42	MENU	MENU	MENU		OSD/C0	MENU	MENU	MENU	MENU
S/SUB / SEARCH -		SWOOFER/1F	SWOOFER/1F	SWOOFER/1F	SWOOFER/1F		SEARCH -/70	SWOOFER/1F	SWOOFER/1F	SWOOFER/1F	SWOOFER/1F
R/SUR / SEARCH + / PREV CH		SURROUND/14	SURROUND/14	SURROUND/14	SURROUND/14		SEARCH +/76	SURROUND/14	SURROUND/14	SURROUND/14	SURROUND/14
UP		UP/57	UP/57	UP/57	UP/57		UP/D0	UP/57	UP/57	UP/57	UP/57
DOWN		DOWN/58	DOWN/58	DOWN/58	DOWN/58		DOWN/D1	DOWN/58	DOWN/58	DOWN/58	DOWN/58
+ / FORWARD		FORWARD/1B	FORWARD	FORWARD	FORWARD		FORWARD/D3	FORWARD	FORWARD	FORWARD	FORWARD
- / BACK		BACK/1C	BACK	BACK	BACK		BACK/D2	BACK	BACK	BACK	BACK
ENT / ENTER		ENTER/1E	ENTER	ENTER	ENTER		ENTER/D4	ENTER	ENTER	ENTER	ENTER
EQ/PIP / DISC 1		EQ/13	DISC 1	P IN P	A/D		DISC 1	DISC 1	DISC 1	DISC 1	DISC 1
DYN / SWAP / DISC 2		DYNAMIC/58	DISC 2	BOX OFF.	RESET		DISC 2	DISC 2	DISC 2	DISC 2	DISC 2
REC / POS / DISC 3		RECORD/1A	DISC 3	INFO	TIMER		DISC 3	DISC 3	DISC 3	DISC 3	DISC 3
ZONE / ANT / DISC 4		ZONE/9A	DISC 4	SERVICES	TRACKING		DISC 4	DISC 4	DISC 4	DISC 4	DISC 4
SUR + / MODE / DISC 5		SUR +/1D	DISC 5	HELP	PROGRAM		DISC 5	DISC 5	DISC 5	DISC 5	DISC 5

Device / Graphic	AUD	CD	TUNER	TAPE	EXT	DVD	VIDEO 2	VIDEO 3	VIDEO 4	VIDEO 5
Input / Graphic		CD/01	TUN/02	TAPE/05	EXT/19	V1/07	V2/08	V3/09	V4/03	V5/04
2CH / - / PROGRAM	2CH/83	PROGRAM	PROGRAM	PROGRAM		PROGRAM	PROGRAM	VIDEO 1	VIDEO 1	VIDEO 1
PL C / - / RANDOM/DIGEST	PLI C/84	RANDOM	RANDOM	RANDOM		DIGEST/39	RANDOM	VIDEO 2	VIDEO 2	VIDEO 2
PL M / TITLE / REPEAT	PLI M/85	REPEAT	REPEAT	REPEAT		TITLE/13	REPEAT	VIDEO 3	VIDEO 3	VIDEO 3
5CH / PROGSCAN / DISC -	5CH/86	DISC -	DISC -	DISC -		PROGSCAN/46	DISC -	VIDEO 4	VIDEO 4	VIDEO 4
7CH / OPEN / DISC +	7CH/87	DISC +	DISC +	DISC +		OPEN/00	DISC +	VIDEO 5	VIDEO 5	VIDEO 5
DISP / DISPLAY / INPUT 1	DISPLAY/55	DISPLAY	DISPLAY/55	DISPLAY		DISPLAY/52	DISPLAY	DISPLAY	DISPLAY	DISPLAY
TAPE2 / AUDIO / INPUT 2	TAPE2/06	AUDIO	AUDIO	AUDIO		AUDIO/42	AUDIO	AUDIO	AUDIO	AUDIO
PHONO / ANGLE / INPUT 3	PHONO/0A	ANGLE	ANGLE	ANGLE		ANGLE/40	ANGLE	ANGLE	ANGLE	ANGLE
TONE / SBTITLE / TV/VCR	TONE/15	SUBTITLE	SUBTITLE	SUBTITLE		SUBTITLE/41	SUBTITLE	SUBTITLE	SUBTITLE	SUBTITLE
D-SLT / ZOOM / REC	D SELECT/56	ZOOM	ZOOM	ZOOM		ZOOM/53	ZOOM	ZOOM	ZOOM	ZOOM
SCAN / RESUME / INPUT 1 (S1)	SCAN/54	SCAN	SCAN/54	S1		RESUME/55	S1	S1	S1	S1
PTY / REPEAT / INPUT 2 (S2)	PTY/59	TIME	PTY/59	S2		REPEAT/5A	S2	S2	S2	S2
P-TUN / A-B / INPUT 3 (S3)	T/PRESET/5D	A-B	T/PRESET/5D	S3		A-B/5B	S3	S3	S3	S3
TP / GOTO / TV/VCR (S4)	TP/5B	REVIEW	TP/5B	S4		GOTO/54	S4	S4	S4	S4
TA / SLOW / REC (S5)	TA/5C	CLEAR	TA/5C	S5		SLOW/10	S5	S5	S5	S5
POWER	POWER/00	POWER/00	POWER/00	POWER/00		POWER/00	POWER/00	POWER/00	POWER/00	POWER/00

